PDA056G340, G.2, Released, Product Marketing Specifications, Page 1 of 3, System: cmiplm.cummins.com Downloaded: 10-15-2024 03:40UTC
SIID: Ytjt5Q9my1Sc8PsR7okl3aZYX9Wh1BQwGFo1FzEiMVi3J21LJK8hNU9rolu8ZBxhXGYj6suXVrors0W6AUD9xw==

Cummins Data Classification: CUMMINS INTERNAL USE ONLY

Generator set data sheet

Model:	**C3000 D5e**
Frequency:	**50 Hz**
Fuel type:	**Diesel**
Emissions level:	**Tier 2**

Spec sheet:	**EMERS-5867-EN**
Sound data sheet:	**MSP-1188**
Cooling data sheet (EPA Tier 2):	**MCP-2056**
EPA Tier 2 emission compliance statement:	**EPA-1259**
PTS sheet:	**PTS-323**

Fuel consumption

	Standby				**Prime**				**Continuous**			
	kVA (kW)				**kVA (kW)**				**kVA (kW)**			
Ratings	3000 (2400) †				2750 (2200)				2100 (1680)			
Load	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**	**1/4**	**1/2**	**3/4**	**Full**
US gph	47.9	92.2	127.0	163.5	44.3	80.2	113.8	145.5	35.4	62.9	90.4	117.
L/hr	181	349	481	619	168	304	431	551	134	238	342	444

†DCC available at standby power subject to Cummins' site-specific assessment. Please contact your Cummins Distributor.

Engine

	Standby rating	**Prime rating**	**Continuous ratin**
Engine manufacturer	Cummins		
Engine model	QSK78-G23		
Configuration	Cast iron, 60º V18 cylinder		
Aspiration	Turbocharged and low temperature after-cooled		
Gross engine power output, kWm	2613	2304	1759
BMEP at set rated load, kPa	2696	2386	1813
Bore, mm	170		
Stroke, mm	190		
Rated speed, rpm	1500		
Piston speed, m/s	11.4		
Compression ratio	15.5:1		
Lube oil capacity, L	466		
Overspeed limit, rpm	1850 ±50		
Regenerative power, kW	266		
Governor type	Electronic		
Starting voltage	24V Volts DC		

Fuel flow

Maximum fuel flow, L/hr	2233
Maximum fuel inlet restriction, mm Hg	229
Maximum fuel inlet temperature, °C	71

©2023 Cummins Inc. | EMERD-5845-EN (04/23)

PDA056G340, G.2, Released, Product Marketing Specifications, Page 2 of 3, System: cmiplm.cummins.com Downloaded: 10-15-2024 03:40UTC
SIID: Ytjt5Q9my1Sc8PsR7oklJ3aZYX9Wh1BQwGFo1FzEiMVi3J21LJK8hNU9rolu8ZBxhXGYj6suXVrors0W6AUD9xw==

Cummins Data Classification: CUMMINS INTERNAL USE ONLY

Air	Standby rating	Prime rating	Continuous ratin
Combustion air, m^3/min	201	188	164
Maximum air cleaner restriction, kPa	6.2		

Exhaust			
Exhaust gas flow at set rated load, m^3/min	480	446	385
Exhaust gas temperature, °C	457	446	428
Maximum exhaust back pressure, kPa	6.8		

Optional remote vertical radiator			
Ambient design, °C	RTF		
Fan load, kW_e	RTF		
Coolant capacity (with radiator), L	RTF		
Cooling system air flow, m^3/sec @ 12.7 mm H_2O	RTF		
Total heat rejection, Btu/min	RTF		
Maximum cooling air flow static restriction mm H_2O	RTF		

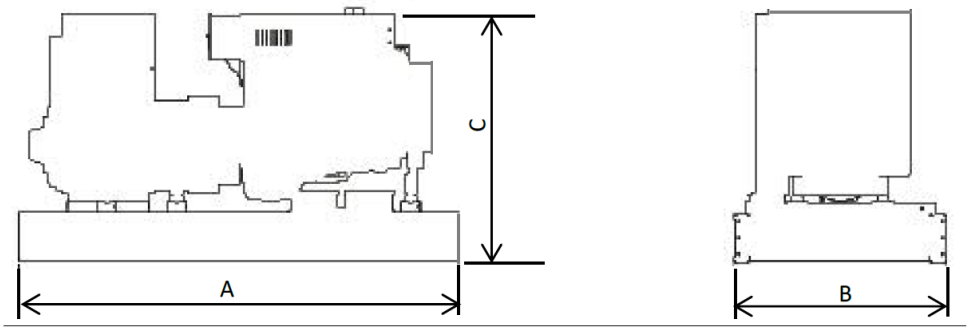
Weights*	Open
Unit dry weight kgs	20710
Unit wet weight kgs	21300

* Weights represent a set with standard features. See outline drawing for weights of other configurations.

Dimensions	Length (A)	Width (B)	Height (C)
Standard open set dimensions	5816	1963	2166

Genset outline

Open set



Outlines are for illustrative purposes only. Please refer to the genset outline drawing for an exact representation of this model.

©2023 Cummins Inc. | EMERD-5845-EN (04/23)

PDA056G340, G.2, Released, Product Marketing Specifications, Page 3 of 3, System: cmiplm.cummins.com Downloaded: 10-15-2024 03:40UTC
SIID: Ytjt5Q9my1Sc8PsR7okl3aZYX9Wh1BQwGFo1FzEiMVi3J21LJK8hNU9rolu8ZBxhXGYj6suXVrors0W6AUD9xw==

Cummins Data Classification: CUMMINS INTERNAL USE ONLY

Alternator data

Connection	Temp rise ºC	Duty	Alternator	Voltage
Wye, 3-phase	80-150	S/P/C	LVSI804S,T,W,X	380-440
Wye, 3-phase	80-125	S/P/C	S9H1D-C,D,E,F,G,H	6300-11000

Ratings definitions

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with data shown above represents gross engine performance and capabilities as per ISO 3046-1, obtained and corrected in accordance with ISO 15550	Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046-1, obtained and corrected in accordance with ISO 15550.

Formulas for calculating full load currents:

Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

For more information contact your local Cummins distributor or visit power.cummins.com

Our energy working for you.™

©2023 Cummins Inc. All rights reserved. Cummins is a registered trademark of Cummins Inc. PowerCommand, AmpSentry, InPower and “Our energy working for you.” are trademarks of Cummins Inc. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.
EMERD-5845-EN (10/24)